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09/769,688	01/25/2001	Takashi Mochizuki	P/647-136	5364	
32172	7590 11/28/2005		EXAMINER		
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP			KUMAR, PANKAJ		
1177 AVENUE OF THE AMERICAS (6TH AVENUE)		ART UNIT	PAPER NUMBER		
41 ST FL. NEW YORK	K, NY 10036-2714	2631			
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		09/769,688	MOCHIZUKI, TAKASHI
		Examiner	Art Unit
		Pankaj Kumar	2631
Period f	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address
WHI - Extending aftender - If No - Fail Any	HORTENED STATUTORY PERIOD FOR REPL'CHEVER IS LONGER, FROM THE MAILING Densions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period of ure to reply within the set or extended period for reply will, by statute treply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133)
Status			
1)⊠ 2a)□ 3)□		action is non-final. nce except for formal matters, pro	
Disposi	tion of Claims		
4)⊠ 5)⊠ 6)⊠ 7)⊠ 8)□	Claim(s) 1 and 7 is/are rejected.	wn from consideration.	
Applicat	tion Papers		
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acceeds applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the I drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority	under 35 U.S.C. § 119		
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachmer	nt(s)		
2) 🔲 Notio 3) 🔲 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) ate atent Application (PTO-152)

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Response to Amendment

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maniwa USPN 6,275,103 in view of Akiya USPN 5,752,171 and Beamish USPN 6,865,216. Here is how the references teach the claims:
- 4. As per claim 1, Maniwa teaches adjustable filter means for reducing leakage power outside a transmission signal band (Maniwa col. 1 lines 13-15; col. 7 line 54 to col. 8 line 4: subtracting portion of fft, two tones, alpha and beta coefficients varying all relate to filtering and adjustable filtering), said adjustable filter means having a first attenuation amount (Maniwa figs. 11, 12, 13: 25 affecting attenuation amount in 50; if this is not sufficient, then it would be obvious as explained below) more than a predetermined amount (not in Maniwa but would be obvious as explained below) and a second attenuation amount (Maniwa figs. 11, 12, 13: 24 affecting 23; if this is not sufficient, then it would be obvious as explained below) not more than the predetermined amount selectively set (not in Maniwa but would be obvious as explained

below) in a range higher than a transmission signal band (Maniwa figs. 7, 8 shows what happens higher than the transmission band when attenuation adjustment is made); modulation means for modulating the transmission signal output from said filter means (not in Maniwa but would be obvious as explained below); and control means for setting one of the first and second attenuation amounts (not in Maniwa but would be obvious as explained below) in said adjustable filter means in accordance with a use situation of a band adjacent to the transmission signal band (Maniwa col. 1 lines 13-15).

If Maniwa does not teach having a first attenuation amount, then Akiya 5752171 teaches 5. having a first attenuation amount (Akiya fig. 1: normal setting data affects attenuation). Maniwa does not teach having a first attenuation amount more than a predetermined amount. Akiya teaches having a first attenuation amount more than a predetermined amount (Akiya fig. 1: normal setting data is more than the predetermined amount for power down setting data). If Maniwa does not teach having a second attenuation amount, then Akiya teaches having a second attenuation amount (Akiya fig. 1: power down setting affects attenuation). Maniwa does not teach having a second attenuation amount not more than the predetermined amount selectively set. Akiya teaches having a second attenuation amount not more than the predetermined amount selectively set (Akiya fig. 1: power down setting data cannot be more than the amount for power down; 112 select the switch position). Maniwa does not teach control means for setting one of the first and second attenuation amounts. Akiya teaches control means for setting one of the first and second attenuation amounts (Akiya fig. 1: left signal into 112 controls the setting of the 112 switch). If Maniwa does not teach adjusting, then Akiya teaches adjusting with the switch. Thus, it would have been obvious, to one of ordinary skill in the art, at time the invention was

made, to arrive at the limitations as recited by the instant claims, because the combined teaching of Maniwa with Akiya suggest the limitations as recited by the instant claims. Furthermore, one of ordinary skill in the art, would have been motivated to combine the teachings of Maniwa with Akiya because Maniwa suggests adjusting coefficients (Maniwa alpha, beta) for use in restricting a frequency band (Maniwa figs. 7,8) and hence adjusting attenuation (something broad) in general and Akiya suggests the beneficial use of adjusting attenuation by switching between two sets of values such as providing extra gain to compensate for power reduction (Akiya col. 1 lines 37-43) in the analogous art of attenuation.

6. Maniwa does not teach modulation means for modulating the transmission signal output from said filter means. Beamish teaches modulation means for modulating (Beamish fig. 4: 418, 416, 414) the transmission signal output from said filter means (Beamish fig. 4: 412). Thus, it would have been obvious, to one of ordinary skill in the art, at time the invention was made, to arrive at the modulation means for modulating the transmission signal output from said filter means as recited by the instant claims, because the combined teaching of Maniwa with Beamish suggest modulation means for modulating the transmission signal output from said filter means as recited by the instant claims. Furthermore, one of ordinary skill in the art, would have been motivated to combine the teachings of Maniwa with Beamish because Maniwa suggests transmission, predistortion, and adjusting coefficients (Maniwa alpha, beta) for use in restricting a frequency band (Maniwa figs. 7,8) and hence filtering (something broad) in general and Beamish suggests the beneficial use of modulating and filtering for transmission such as removing higher order harmonics in order to avoid transmitting out of band energy (Beamish col. 2 lines 49-52) in the analogous art of transmission.

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7. As per claim 7: An apparatus according to claim 1, wherein said filter means, modulation

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means, and control means are arranged in one of a mobile station and a base station of a mobile

communication system (Maniwa col. 1 line 8; col. 2 lines 26-27: mobile communication and the

like).

Allowable Subject Matter

8. Claims 3-4 are allowed. See prior action(s) for details.

9. Claims 2, 5, 6, 8-10 are objected.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (571) 272-3011. The examiner can normally be reached on Mon, Tues, Thurs and Fri after 8AM to after 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pankaj Kumar Patent Examiner Art Unit 2631